

## Logic Transition Theory - metaphysics of the reality

Everything in the Universe is a logical consequence of the previous rational premise(s). If we extrapolate all events backwards, using computer simulation or mathematical calculation, galaxies would get closer and closer, matter would compress more and more until entire spacetime clinch into the initial singularity of infinite density and energy. Let us extrapolate one further step: what are the rational premises for the initial singularity?

Two phenomenons that reside solely in the domain of the metaphysics: Great Nothing and Time. Their nature is transcendent, preoriginating creation of the Universe, therefore it is not perspective subject contemplative from the physical standpoint. Nothing and Time need no prior causes for existence. What is nothing? Nothing is real. Remember intergalactic vacuum? What is 99.9% of the cubic meter? Nothing. What is time? Time is measure of the Earth's angular momentum. We have divided Earth's rotation cycle into the 24 hours and produced time scale. We use movement of our planet to describe time. But before the Big Bang there was no Earth, no planet, no matter, no space. We have nothing to compare time with. Nothing to use as a calibrator.

Does that mean that there is no Time? No. It means that we have nothing to measure time against. There is nothing and nothing is happening. Time is factor of the velocity. No velocity = no time. No time equals eternity. Imagine you have a stopwatch with no units noted. How long will you wait until any amount of time passes, even infinitesimally small? Infinity because there is

no time to pass. Only when Time started to be realised, at the moment of initial singularity when first event in the Universe happened. Nothing has existed for an eternity and it jumped into the next logical phase: 0 became 1 or, better yet, +1 and -1. We know when it was from now but if we look from the initial singularity moment into the past we can not see the beginning. How can we see anything which has no beginning? It is like looking into the sky - can you see the edge of the Universe? Take best telescopes - do you see the edge of the Universe? Even if you do - that edge is not an edge when you look again due to the expansion of the spacetime. Think of it as the Heisenberg principle on the macroscale: you can not measure exact position and velocity of the cosmic border at the same moment.

Nothing is deep. Nothing is eternal. You can not see its bottom - you can not see how old it is. Hence, it is eternal in the past direction. We can place initial singularity 13.8 billions years ago observing from now. Observing retrospectively from back then we can not place it anywhere or anytime because we have no previous reference. Nothing was nowhere and never. Being nowhere and never actually it was everywhere and eternal. It is a paradox. That is why I say it is solely the domain of transcendence or metaphysics: "Unseen roots of no prior necessary logical cause". On the vector of eternity the moment of initial singularity is undefinable and irrelevant. You can not precisely determine the infinity and eternity. We use symbol "8", in horizontal alignment, to express such quantity. And minus sign in this case.

Hence, Universe needs no creator. Universe could exist by mere logic of phase transition from 0, which lasted for an eternity, to 1 splitting into the two opposite particles of matter and anti-matter.

What is nothing?

What are the characteristics of nothing? We certainly can not come to the nothing from somewhere simply because there is no somewhere - there is only nothing. Nothing has no matter, no forces, no properties. Try to close your eyes hard so that no light enters them, cover your ears tight so that no sound passes, exhale and stop breathing for a moment, forget about your body and relax, stop thinking. That is what nothing looks like. Exactly: nothing. But Nothing has potential. Nothing has ability to make something appear. Particles and antiparticles emerge, annihilate between pair and disappear.

We ask ourselves the wrong questions because we act accordingly to the 2nd thermodynamic law of entropy. In order to find solution we must reverse our thinking. We must reversely engineer the Universe. Same as "how" Universe began instead of "when" it began, we always ask "can something come out of nothing" instead "can nothing come out of something". Yes it can. Particles and antiparticles cancel each other - something creates nothing. Isn't the backward method logical? If I enter the room then I can certainly get out the same way. If something goes off then it can go on as well.  $1$  and  $-1$  summed equals  $0$ . Isn't it logical that  $0$  equals sum of  $1$  and  $-1$ ?

More about nothing

As well as there is only three possibilities for Time to exist: 1) it was forever, 2) it started at some point of never or 3) it is an illusion, Universe could have: 1) existed forever but only time without space before the Big Bang - conditional nothing or nothing with time factor included, 2) started at some point in never or 3) it is an illusion. We live beings feel the Universe is because we are entirely susceptible to its laws. One can not discard his deepest insights. But in order to think like God - we must transcend our thoughts beyond borders of the spacetime and contemplate in the divine (spiritual) sense. For God - Universe is and isn't at the same time. It is the only way to purely, objectively, rationally observe the Creation. Remember, one can not see the box from inside the box. One can only see the inside of the box. To observe the box we must get out. To do so we have to achieve the speed of light. Only massless photons can do so. What is spirit if not massless? Only by transcending our minds into the astral regions we can accomplish the great exit. Or creating ripples using ultra power lasers concentrating critical amounts of energy into the single point of the spacetime?

There are only 3 possibilities for Time to exist: first, it existed forever. This sounds interesting, even logical.

Second, it started at some point. But in what point? In the point of nothing? Or there were already primordial energy(ies) that turned into mass (matter) and certain forces?

Third, Time does not exist. It is simply man made concept to measure duration of events. Event can be either motion or transformation (including decay, improvement, change) or any combination. Event is not strictly

physical. It has duration property. It started at some moment in no-time which can be whenever or never, the first quantum fluctuation in the Universe: 1 or 0, and it will end sometime or it will last to eternity. I recognize periods which are interwoven and create an active fiber of the Time illusion phenomenon/paradox that do not really -is- but rather -is virtual-. For example, computer representation do not exist. It is virtual. There are only physical energies or masses and forces that govern them. Accordingly, there is no true reality. There is only visual reality.

Second possibility seems just like the hot Big Bang Friedmann model of the initial Cosmos. At some moment in the higher Time dimension smaller fragment branched. Same problem arise: when did this higher Time dimension began? Identical situation occurs again and again if we try to offer same solution. We keep extending the circle of the subject. In order to answer the question it is obligatory to observe the question from outside. You do not know for sure how you look without a mirror to reflect your image respectively. So, the truth is not round. The truth is in string form. Just lenght and you can supervise it from any point nearby. Maybe now issue "how" Time started is proper to ask. Along with source singularity, anytime or never (remember that there is no time - if there is no time than something can only began at 0 Time. What is 0 Time if nothing: described numerically and simbolically as 0 in both aspects), through starting phases (infinitely dense, then ultra hot, then introducing laws of physics and expanding and cooling the matter in the spacetime, then balancing inside and continually spreading in all directions, light speed fast, through the conditional nothing. Notice the way I name absolute absence of anything: conditional nothing. Another version of the first quantum fluctuation ever: nothing with asterix (´). We can religiously and philosophically call it God or the Grand Sculptor. I prefer sculptor over architect. Architect means pure theory or visual translation, graphical manifestation of the authentic idea in contrast to the sculptor which means both theory and praxis or visualisation and process of making together, respectively. "In beginning there was the Word". Holy scriptures were written in ancient languages, more or less partially lost and hard to comprehend with 100% certainty, so what if instead of the Word there should be the Thought? In beginning there was the Thought. And Thought was the

God. God which can cloak Himself if desired. In our ignorant attempts to name and define the cause of Being we humans think of eternity and nothing terms? Yet we can not understand Universe and astronomical proportions of it. All we got so far are theories. Convincing or less. When we succeed to explain our human mind than we can go step more. We still do not know ourselves, except enlightened ones, hermits, but we reach towards intellectual heavens. Do you really believe that you can even step on the path of wisdom without knowing your inner self? Hello. Who are you? It is me, I. Nice to meet you I. I think the same. Hello and bye you at the same time as I. :-) Fun game of words to relax our mind.

NO-NO paradox:

nono-paradox-1.png (614×438) (jwwb.nl)

If Universe (including Time) started at a certain point, which scientist call Big Bang, what existed before that? Lack of anything material, absence of everything, nothing is easy to grasp. It is easier to ask ourself and contemplate how and when Time alone started to exist rather than how and when space and time together started to exist in the form of the Universe. On the other hand it is much easier to understand lack of space than lack of time due to the visual representation of the matter in contrast to the invisible nature of the Time. I can imagine nothing spatial existing before Big Bang but I can not imagine nothing temporal existing before Time. That is a paradox any way we look at it: if any amount of Time existed before Big Bang then we can not say that Time started with the Big Bang. But if Time started

to exist with the Big Bang then nothing – lasted no time prior? Nothing is so unstable that it lasted for 0 seconds? I have a parallel: when I try to rest my mind while being awake I can hardly suppress thoughts and sustain the phase of not thinking for a longer than few minutes – sooner or later my concentration falls and some thought manages to squeeze out of my neurons and manifest itself... We have nothing spatial which lasted for no time and then was the Big Bang? Nothing simply wants to become something as faster as it can and now is the best time to do it? Nothing was nothing for no time and then it decided to explode and expand? I have trouble accepting the idea that Time started to exist with the Big Bang. It has no logic – it is a paradox any way around: if any amount of Time existed before then Time didn't start with the Big Bang. If Time started with the Big Bang then nothing existed for no time prior? It is Universe or nothing!? Or better said, nothing for no time. This „at the point“ concept is hard for me to appreciate without the instability factor accompanying zilch. Do I see primordial quantum state here: first 0/1 occurrence ever? 0 is so unstable that it was 0 for 0 time and immediately turned into 1 and expanded further? It actually proposes that quantum instability is fundamental principal of the Nature. Quantum instability or... (inter)change. I must notice similarity with the Yin-Yang philosophy or dual nature of the Universe: Yin turning into Yang and vice versa; 0 and 1 alternating repeatedly. Does it mean that one day 1 will become 0 again? Maybe when it stretches to a maximal degree, maybe not. Maybe only 0 has instability factor included. Maybe 1 is firm. However, „at the point“ theory indicates that Universe, spacetime, started - what a selfish idea.

Humans are the most selfish beings that ever existed – first they said that everything rotates around them (Earth). Then they say that everything started with them (the Big Bang). Why should everything started with the Big Bang? Big Bang could have been just one event in the everlasting continuum. I imagine reality before the Big Bang but not our kind of reality, instead hypertime and hyperspace forming hyperreality – time, space and reality without boundaries and limits. I imagine massive Sun, bigger than our galaxy, gigantic black holes and I imagine huge dark energy area creating cosmic thunders – electrical discharges that occasionally hit surrounding

emptiness causing big bang to occur on the opposite side of conditional nothing or in the parallel reality. In that case, quantum state is fundamental but only as a consequence of the randomness of the cosmical electrical discharges, not as a self-induced or field-induced alternation. While conditionality of nothing arises from the fact that there are forces prior to the Big Bang. Being in the box (Universe) we simply can not see what existed before the moment of the Creation but we selfishly consider it to be the start and the end – and, moreover, having the meaning and the purpose. We should accept the possibility that our Universe is only a consequence of the higher cosmic incident – for example, random strike of the electrical discharge. Perhaps there are layers of reality in which our Universe is just the one inbetween or even among the lowest ones.

The most interesting question is: if there was nothing and no time before the Big Bang then exactly where and when could that Big Bang happened? This is paradox by itself.

Ad infinitum logic:

adinfinity.png (623×424) (jwwb.nl)

How could nothing lasted for an eternity since there is a point when and



where The Big Bang happened? Because in order to have eternity you don't need to have infinite line in both directions - you only need infinity in one direction which is past in our case. Time line can stretch indefinitely in the past having one side fixed at the moment of the Big Bang.

As well as empty space gives meaning to the cup in the same manner empty space gives meaning to the Universe. Likewise our houses have yards that separate private from public making a barrier. Try living without a yard, road, field or green surface. Try living without an intermediate zone between you and the surroundings. Emptiness in the Universe has actual purpose of the separation.

Nothing is real:

intergalacticnothing.png (704×339) (jwwb.nl)

To get the perspective how nothing looks like we can go on a space trip starting from the Earth where air has density of  $10^{19}$  particles in the  $1 \text{ cm}^3$ , then cross into the interplanetary space where density is 5 particles in the  $1 \text{ cm}^3$ , further into the interstellar space with 1 - 0.1 particle in the  $1 \text{ cm}^3$  and finally we arrive in the intergalactic space where density is only 1 particle per one cubic meter. If we, by any efficient mean, remove or neutralize that

particle (cooling with lasers) then we have 1 m<sup>3</sup> of nothing – nothing with volume of 1 m<sup>3</sup> and Time exist regardless of the matter deficiency.

### Stages in the density of the Universe

(interplanetary/interstellar/intergalactic) offer insight into gradual transition from something to nothing and reverse. Particles in interplanetary space have a density of approximately 5 particles per cubic centimeter. The air we breathe has a density of approximately  $10^{19}$  molecules per cubic centimeter. Average density of interstellar space is about 1 atom per cubic centimeter and the lowest density regions of interstellar space contains approximately 0.1 atoms per cubic centimeter. Intergalactic density is less than one atom per cubic meter.

Earth atmosphere Interplanetary Interstellar Intergalactic Density  $10^{19}$   
5/cm<sup>3</sup> 1/cm<sup>3</sup> - 0.1/cm<sup>3</sup> 1/m<sup>3</sup>.

Therefore, Time doesn't need any condition or circumstance to exist.

Of course, things aren't that simple: intergalactic emptiness, cosmic vacuum, actually is not nothing although it visually appears like that on the first sight. There are electromagnetic radiation, magnetic fields, dust and cosmic rays. Our imagination should go further beyond just removing a

single atom. We must neutralize the prementioned and then we still do not have nothing because there is one remnant left - vacuum or zero-point energy. So, there is plenty of work to make nothing out of nothing but I think you get the picture how it looks like.